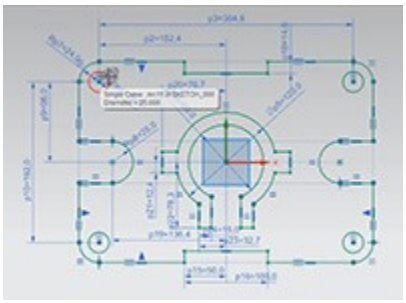
NX 9 for Design

What's New in NX CAD

NX CAD 9 offers new and enhanced capabilities for product design, from concept through detailed engineering and documentation. NX 9 introduces new 3D CAD modeling techniques, improved 2D design and drafting, a streamlined user interface, faster access to PLM information, and a robust platform for concurrent engineering of complex products.

Greater Productivity with 2D – Synchronous Technology

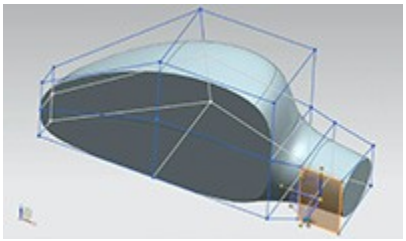


With NX 9 for Design, you can edit 2D geometry with unprecedented speed and ease. Synchronous technology has been extended to enable fast, intuitive editing of 2D profiles. You can improve efficiency with accelerated, easy-to-understand design changes that work with geometry from multiple CAD systems.

Interested In This Solution?

- Contact Siemens PLM Software for additional information such as brochures, pricing, etc

Faster Concept Development, Freeform Modeling

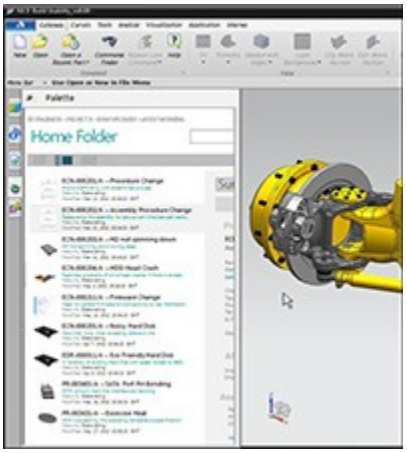


NX 9 for Design introduces Realize Shape, a new task environment for freeform design that uses fast and intuitive subdivision modeling technology. Realize Shape offers you easy-to-use, flexible tools for creating advanced freeform shapes, with in-context analysis and visualization. Real-time ray-traced rendering in NX 9 displays inter-object reflections and refractions to help optimize product aesthetics.

More Power for Collaborative Design – 4GD

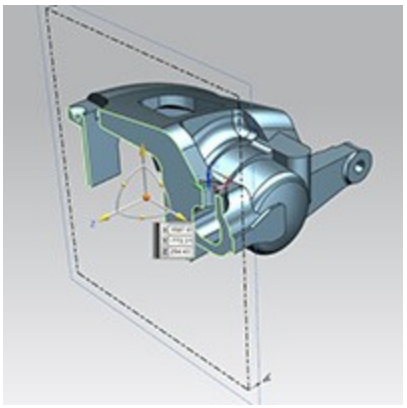
NX 9 improves the design of large-scale products and projects with 4th Generation Design (4GD), a new design and data management paradigm that enables versatile and efficient methods for design in context and design collaboration. Currently implemented in Siemens solutions for the marine industry, the component-based 4GD approach enables concurrent design in multiple configurations, and is scalable to products with millions of components.

High-Definition Experience Improves Decision-Making



NX 9 enhances the High-Definition PLM experience by embedding Active Workspace 2.0, the innovative new interface to Siemens' Teamcenter software. You can choose the simple, graphically engaging Active Workspace to quickly find relevant information – parts, tasks, workflows, requirements and specifications – even from multiple external data sources. This streamlined access to the right information, in context, dramatically reduces the time spent looking for data and improves decision-making.

Full-Cycle Design Productivity



NX CAD 9 delivers new levels of productivity for the entire design process:

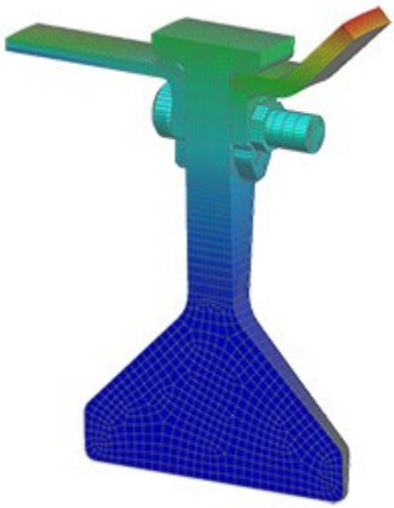
- More efficient and interactive methods for creating and managing dimensions and annotations
- Improved performance for display and update
- Customizable ribbon bar for easy access to more commands with a larger graphics window
- Streamlined workflows for specific industries

NX 9 for Simulation

Make Smarter Engineering Decisions

Simulation is a critical part of the product engineering process, and Siemens PLM Software continues to invest in extending the multii-discipline simulation capabilities within NX for structural, thermal, flow, motion, multiphysics and optimization applications. NX 9 for Simulation introduces new capabilities and enhancements in NX CAE and NX Nastran to help you make smarter engineering decisions.

NX CAE 9



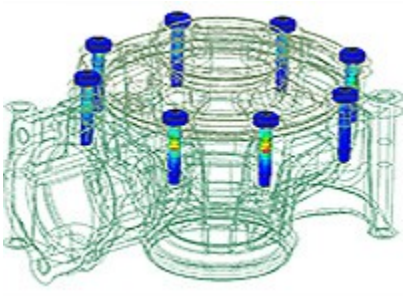
NX CAE is a modern simulation environment for performing structural, thermal, flow, motion, multiphysics and optimization analyses. NX CAE 9 introduces new capabilities in all of these areas, including:

- **Mesh morphing** to conform existing meshes to slightly modified geometry
- **Laminate composite dynamic simulation** to analyze structural performance resulting from vibration
- **New parallel thermal solver** to reduce thermal simulation solution time for large models
- **Interactive articulation options** for motion analysis

Learn more about:

- NX CAE 9

NX Nastran 9



Available as a standalone solver or integrated in NX CAE, NX Nastran is the premier FEA solver for computational performance, accuracy, reliability and scalability. NX Nastran 9 introduces a number of enhancements, including:

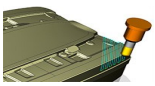
- **Rotor dynamics enhancements** to simulate the performance of rotating machinery
- **Improved performance** for large-scale normal modes and frequency response dynamics solutions
- **Modeling and workflow improvements** such as bolt preloading using solid elements for nonlinear analyses

NX 9 for Manufacturing

Make Smarter Manufacturing Decisions

NX 9 includes a wide range of new capabilities for manufacturing in tool design, in CMM Inspection Programming and in CAM.

NX CAM 9



Increase your manufacturing productivity with new industry specific capabilities in NX CAM 9. Enhanced control over cut regions for mold and die parts, faster programming of multiple-part setups and improved machining efficiency of complex parts can maximize your NC programming efficiency.

Learn more about:

- NX CAM 9

NX CMM Inspection Programing

Inspect a wider range of part types, including sheet metal components, with the new functions in NX 9. Multi feature path creation can automate the process and reduce inspection programming

time. The results analysis module now offers a new set of analysis options and a rich graphical environment to display measured features in NX.

Learn more about:

- NX CMM 9

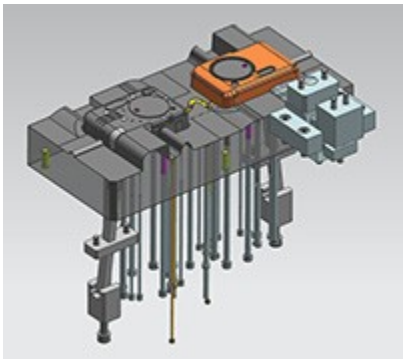
MRL Connect for NX

The Manufacturing Resource Library (MRL) provides an advanced tool library capability based on Teamcenter technology. With the new MRL Connect for NX you can easily connect NX CAM directly to a standalone installation of MRL while operating within the NX environment.

Learn more about:

- MRL Connect for NX

Tooling Design



Accelerate the preparation of tooling models for downstream machining with new modeling and analysis capabilities in NX 9. You can now more easily access libraries of standard mold and die base parts. Streamlined workflows for stamping and progressive die design in NX 9 eliminate manual processes to reduce design time.

Learn more about: